Attorney's Docket No.: 110350-134110

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

PATENT

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

<u>A 1P1N 2T</u>	GAIN CELL	
the specificati	on of which	
<u>x</u>	is attached hereto. was filed on (MM/DD/YYYY) United States Application Number or PCT International Application Number and was amended on (MM/DD/YYYY)	as
	United States Application Numberor PCT International Application Number	

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

P17203 INTEL CORPORATION Rev. 11/28/01 (D3 INTEL)

Prior Foreign Application(s	1	· .	Priority <u>Claimed</u>
(Number)	(Country)	(Foreign Filing Date MM/DD/YYYY)	Yes No
(Number)	(Country)	(Foreign Filing Date MM/DD/YYYY)	e- Yes No
(Number) (Country)		(Foreign Filing Date MM/DD/YYYY)	te - Yes No
I hereby claim the benefit uprovisional application(s) list		States Code, Section 119	(e) of any United States
Application Number	(Filing Date	– MM/DD/YYYY)	
Application Number	(Filing Date	– MM/DD/YYYY)	
I hereby claim the benefit upplication(s) listed below a is not disclosed in the prior of Title 35, United States Consumer to me to be material Section 1.56 which became or PCT international filing of	and, insofar as the sub United States applica code, Section 112, I ac I to patentability as def e available between th	oject matter of each of the tion in the manner provid knowledge the duty to dis ined in Title 37, Code of e filing date of the prior a	e claims of this application ed by the first paragraph sclose all information Federal Regulations,
Application Number	(Filing Date – MM/		atented, pending, abandoned
Application Number	(Filing Date – MM/		atented, pending, abandoned

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Please direct all correspondence to customer number 000025943.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/Fir	st Inventor	Yibin Ye		
Inventor's Signature _	Menin	Date _	Nov. 11, 200	3
	•	Citizenship	,	
Post Office Address_	14695 NW Vanc	e Drive		
Full Name of Joint/Se	cond Inventor	Dinesh Somasekhar		
Inventor's Signature _	Dinestr	Date _	Nov 11 20	<u> 200</u>
Residence	Portland, OR (City, State)	Citizenship	India (Country)	
Post Office Address_	222 SW Harrison	n Street, 01A		
Full Name of Joint/Th	ird Inventor	Muhammad M. Khellah		
Inventor's Signature	Khellelp	Date _	Nov 10,03	
Residence	Lake Oswego, OR (City, State)	Citizenship	Canada (Country)	
Post Office Address_	2 Jefferson Park	way, #A1		
Full Name of Joint/Fo	urth Inventor	Fabrice Paillet		•
Inventor's Signature _	tani	Date _	11/10/2003	
Residence	Hillsboro, OR (City, State)	Citizenship	France (Country)	
Post Office Address_ P17203 INTEL CORPORATION Rev. 11/28/01 (D3 INTEL)	222 SW Harrison	n Street, 01A		

Full Name of Joint/Fifth Inventor Stephen H. Tang					
Inventor's Signature _			Date		
Residence	Beaverton, OR (City, State)	Citizensł	nip	USA (Country)	
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Full Name of Joint/Six	kth Inventor	Ali Keshavarzi			-
Inventor's Signature _	DW2_		Date	Nov la,	2003
Residence	Portland, OR (City, State)	Citizensł	nip	USA (Country)	·
Post Office Address_	2341 NW Birkend	ene Street			
Full Name of Joint/Se	venth Inventor	Shih-Lien L.	Lu		-
Inventor's Signature _	, , , , ,				.003
	Portland, OR (City, State)	Citizensł	nip	India (Country)	
Post Office Address_	14069 NW Lakevi	ew Drive			<u>.</u>
Full Name of Joint/Eighth Inventor Vivek K. De					
Inventor's Signature _	Valor.		Date	11/12/03	
Residence	Beaverton, OR (City, State)	Citizensh	nip	India (Country)	
Post Office Address_	9785 SW 151 st Av	enue			

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APPENDIX A

The Practitioners at customer number 000025943; and Alan K. Aldous, Reg. No. 31,905; Shireen I. Bacon, Reg. No. 40,494: R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert A. Burtzlaff, Reg. No. 35,466; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Faatz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Jeffrey B. Huter, Reg. No. 41,086; John Kacvinsky, Reg. No. 40,040; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; David C. Lundmark, Reg. No. 42,815; Anthony Martinez, Reg. No. 44,223; Larry Mennemeier, Reg. No. 51,003; Paul Nagy, Reg. No. 37,896; Dennis A. Nicholls, Reg. No. 42,036; Leo V. Novakoski, Reg. No. 37,198; Lanny Parker, Reg. No. 44,281; Michael Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; David Simon, Reg. No. 32,756; Steven P. Skabrat, Reg. No. 36,279; Howard A. Skaist, Reg. No. 36,008; Paul E. Steiner, Reg. No. 41,326; David Tran, Reg. No. 50,804; Robert G. Winkle, Reg. No. 37,474; Sharon Wong, Reg. No. 37,760; Steven D. Yates, Reg. No. 42,242; Calvin E. Wells; Reg. No. 43,256; Michael Willardson, Reg. No. 50,856 and Charles K. Young, Reg. No. 39,435; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, telephone (408)765-8080; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

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APPENDIX B

Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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Attorney's Docket No.: 110350-134110

PATENT

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

A 1P1N 2T GAIN CELI

he specificati	on of which	
<u>x</u>	is attached hereto. was filed on (MM/DD/YYYY)	as
	United States Application Number or PCT International Application Number	
	and was amended on (MM/DD/YYYY)(if applicable)	•

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

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I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

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-1-

Prior Foreign Application(s)		Priorit <u>Claim</u>	
(Number)	(Country)	(Foreign Filing Date MM/DD/YYYY)	- Yes	No
(Number)	(Country)	(Foreign Filing Date MM/DD/YYYY)	- Yes	No .
(Number)	(Country)	(Foreign Filing Date MM/DD/YYYY)	e - Yes	No
I hereby claim the benefit uprovisional application(s) li	under Title 35, United sted below:	States Code, Section 119	(e) of any United S	States
Application Number	(Filling Date	- MM/DD/YYYY)		
Application Number	(Filing Date	- MM/DD/YYYY)		
I hereby claim the benefit to application(s) listed below is not disclosed in the prior of Title 35, United States C known to me to be materia Section 1.56 which becam or PCT international filing of	and, insofar as the sult United States applicated, Section 112, I ac I to patentability as de available between the	oject matter of each of the tion in the manner provide knowledge the duty to dis fined in Title 37, Code of I se filing date of the prior a	claims of this appet ed by the first para close all informati Federal Regulation	plication agraph ion ns,
Application Number	(Filing Date - MM		atented, pending, abandon	ed
Application Number	(Filing Date – MM		atented, pending, abandon	ed

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Please direct all correspondence to customer number 000025943.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/Fir	st Inventor	YIDIN YE			
Inventor's Signature		,	Date		
	Portland, OR (City, State)				
Post Office Address_	14695 NW Van	ce Drive	·;		· · · · · · · · · · · · · · · · · · ·
Full Name of Joint/Se	econd Inventor	Dinesh So	omasekhar		
Inventor's Signature		·	Date		
	Portland, OR (City, State)	Citize			
Post Office Address_	s 222 SW Harrison Street, 01A				
Full Name of Joint/Th	aird Inventor	Muhammad	M. Khellah	· ·	
Inventor's Signature		•	Date		
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Post Office Address_	2 Jefferson Par	kway, #A1			
Full Name of Joint/Fo	ourth inventor	Fabrice Pa	nillet		
Inventor's Signature			Date		
Residence	Hillsboro, OR (City, State)	Citiz	enship	France (Country)	
Post Office Address_ P17203 INTEL CORPORATION Rev. 11/28/01 (D3 INTEL	222 SW Harris	on Street, 01A	 		

Full Name of Joint/Fit		Stephen H. Tang	
Inventor's Signature	Michan 18	Date _	Nov. 17, 2003
Residence	Beaverton, OR Pluse (City, State)	Inton, CA Citizenship	USA (Country)
Post Office Address_	20777-NW Tre 7955 Hills	ST Hwaik Drive, Apt. D308 bur Ct.	
Full Name of Joint/Six	kth Inventor	Ali Keshavarzi	
Inventor's Signature _		Date	<u>.</u> .
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Post Office Address_	14069 NW Lal	keview Drive	
Full Name of Joint/Ei	ghth Inventor	Vivek K. De	
Inventor's Signature _		Date	
Residence	Beaverton, OR (City, State)	Citizenship	India (Country)
Post Office Address_	9785 SW 151 ^s	Avenue	

APPENDIX A

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APPENDIX B

Title 37, Code of Federal Regulations, Section 1.56
Duty to Disclose Information Material to Patentability

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- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing dat of the prior application and the national or PCT international filing dat of the continuation-in-part application.

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